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PATENT
ATTORNEY DOCKET NO. 024445-354

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Bo CARLSTROM) Confirmation No.: 4028
Application No.: 10/603,653) Group Art Unit: 3672
Filed: 06/26/03) Examiner: Gay, Jennifer Hawkins

Title: Male Portion, Drill Bit and Threaded
Joint for Percussive Rock Drilling

Commissioner for Patents
U.S. Patent and Trademark Office
Alexandria, VA 22314

Sir:

CHANGE OF CORRESPONDENCE ADDRESS

Please enter the correspondence address of this application as:

Customer Number 55694

A new power of attorney appointing the undersigned is being filed concurrently herewith.
If there is any fee due in connection with the filing of this paper, please charge the fee to our
Deposit Account No. 50-0573.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: September 6, 2005

By: Ronald L. Grudziecki
Ronald L. Grudziecki
Registration No. 24,970

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Commissioner for Patents
Alexandria, VA 22314

Sir:

**SUBMISSION OF REVOCATION OF ORIGINAL POWER OF ATTORNEY
AND GRANT OF NEW POWER OF ATTORNEY**

Enclosed is a copy of the Revocation of Original Power of Attorney and Grant of New Power of Attorney by the Assignee.

If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignee: SANDVIK INTELLECTUAL PROPERTY AKTIEBOLAG

Commissioner for Patents
Washington, D.C. 20231

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), SANDVIK INTELLECTUAL PROPERTY AKTIEBOLAG, a Swedish corporation, certified that it is the assignee of 100% of the right, title and interest in the patent applications and issued patents identified in the following chart by virtue of respective Assignment documents for each listed application and patent from the inventor(s) by mesne assignments to SANDVIK INTELLECTUAL PROPERTY AKTIEBOLAG submitted to the U.S. Patent and Trademark Office. The dates on which the assignments were submitted and the reel/frame numbers at which the assignments were recorded are indicated in the following chart.

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024445-061	09/758,680	1 /11/2001		
024444-938	09/857,688	10/3 /2001		
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024445-008	10/019,778	7 /3 /2002		
024445-033	10/112,941	4 /2 /2002		
032944-090.001	10/141,183	5 /9 /2002		
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024445-099	10/181,894	10/3 /2002		
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024445-109	10/232,726	9 /3 /2002		
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024445-348	10/250,923	12/3 /2003		
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000500-365	10/478,445	4 /22/2004		
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024445-528	10/515,233	3 /16/2005		
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034369-002	10/525,975	2 /28/2005		
034369-003	10/525,976	2 /28/2005		
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029777-021	10/533,295	4 /29/2005		
014975-116	10/533,873	5 /5 /2005		
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024445-227	10/616,988	7 /11/2003		
024445-375	10/641,138	8 /15/2003		
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024000-513	078,719	7 /28/1987	4,776,733	10/11/1988		
024000-326	775,687	9 /13/1985	4,784,517	11/15/1988		
024000-495	055,153	5 /28/1987	4,795,290	1 /3 /1989		
024000-482	030,582	3 /27/1987	4,804,645	2 /14/1989		
024000-510	061,779	6 /15/1987	4,818,497	4 /4 /1989		
024000-549	152,477	2 /5 /1988	4,831,674	5 /23/1989		
024000-565	181,379	4 /14/1988	4,834,597	5 /30/1989		
024000-514	080,392	7 /29/1987	4,844,668	7 /4 /1989		
024000-601	253,586	10/5 /1988	4,884,461	12/5 /1989		
024000-570	195,609	5 /18/1988	4,889,455	12/26/1989		
024000-591	221,408	7 /19/1988	4,913,125	4 /3 /1990		
024000-642	349,094	5 /9 /1989	4,920,838	5 /1 /1990		
024000-609	268,717	11/9 /1988	4,934,883	6 /19/1990		
024000-577	200,919	6 /1 /1988	4,938,110	7 /3 /1990		
024000-214	586,818	3 /6 /1984	4,938,538	7 /3 /1990		
024000-657	369,709	6 /22/1989	4,950,108	8 /21/1990		
024000-666	386,424	7 /28/1989	4,951,762	8 /28/1990		
024000-585	214,402	7 /1 /1988	4,961,672	10/9 /1990		
024000-640	332,178	4 /3 /1989	4,964,925	10/23/1990		
024000-659	376,573	7 /7 /1989	4,968,068	11/6 /1990		
024000-725	488,996	3 /6 /1990	4,978,262	12/18/1990		
024000-679	409,944	9 /19/1989	4,988,242	1 /29/1991		
024000-652	351,486	5 /15/1989	4,993,890	2 /19/1991		
024000-670	400,066	8 /29/1989	5,007,775	4 /16/1991		
024000-677	413,005	9 /26/1989	5,011,340	4 /30/1991		
024000-717	477,752	2 /9 /1990	5,026,224	6 /25/1991		
024000-741	528,489	5 /25/1990	5,029,500	7 /9 /1991		
024000-705	449,820	12/13/1989	5,044,056	9 /3 /1991		
024000-612	257,830	10/14/1988	5,047,096	9 /10/1991		
024000-560.001	529,722	5 /29/1990	5,054,217	10/8 /1991		
024000-695.001	477,415	2 /9 /1990	5,059,069	10/22/1991		
024000-648	384,658	7 /25/1989	5,064,004	11/12/1991		
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024000-703	440,310	11/22/1989	5,082,243	1 /21/1992		
024000-786	658,651	2 /21/1991	5,104,458	4 /14/1992		
024000-728	497,620	3 /23/1990	5,106,303	4 /21/1992		
024000-573.001	723,241	6 /28/1991	5,110,770	5 /5 /1992		
024000-742	528,476	5 /25/1990	5,119,703	6 /9 /1992		
024000-772	598,115	10/16/1990	5,141,901	8 /25/1992		
024000-787	661,000	2 /26/1991	5,147,475	9 /15/1992		
024000-736	511,096	4 /19/1990	5,154,245	10/13/1992		
024000-729.001	708,058	5 /30/1991	5,161,859	11/10/1992		
024000-840	813,921	12/27/1991	5,167,067	12/1 /1992		
024000-802	717,644	6 /19/1991	5,190,419	3 /2 /1993		
024000-829	801,873	12/3 /1991	5,199,827	4 /6 /1993		
024000-810	726,401	7 /5 /1991	5,205,680	4 /27/1993		
024000-803	709,291	6 /3 /1991	5,207,285	5 /4 /1993		
024000-808	715,654	6 /14/1991	5,217,081	6 /8 /1993		
024000-818	753,102	8 /30/1991	5,217,375	6 /8 /1993		
024000-723	577,530	9 /5 /1990	5,224,402	7 /6 /1993		
024000-861	864,550	4 /7 /1992	5,231,060	7 /27/1993		
024000-788.001	895,426	6 /5 /1992	5,242,655	9 /7 /1993		
024000-824	801,871	12/3 /1991	5,246,315	9 /21/1993		
024000-849	833,750	2 /11/1992	5,248,289	9 /28/1993		
024000-841	822,851	1 /21/1992	5,254,142	10/19/1993		
024000-855	845,655	3 /4 /1992	5,256,008	10/26/1993		
024000-822	774,897	10/11/1991	5,264,283	11/23/1993		
024000-905	986,484	12/7 /1992	5,267,817	12/7 /1993		
032944-090	823,312	1 /21/1992	5,275,525	1 /4 /1994		
024000-692	425,237	10/23/1989	5,275,633	1 /4 /1994		
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024000-897	90/004,584	3 /19/1997	5,324,595	8 /25/1998		
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024000-929	08/021,560	2 /24/1993	5,330,297	7 /19/1994		
024000-872	886,876	5 /22/1992	5,330,553	7 /19/1994		
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024000-951	08/079,607	6 /22/1993	5,342,201	8 /30/1994		
024000-858	857,275	3 /25/1992	5,346,517	9 /13/1994		
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024000-939	08/053,425	4 /28/1993	5,360,298	11/1 /1994		
024000-921	08/004,302	1 /14/1993	5,365,805	11/22/1994		
024000-935.002	08/053,232	4 /28/1993	5,375,948	12/27/1994		
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032944-076	07/122,063	9 /14/1993	5,399,061	3 /21/1995		
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024000-948	08/077,683	6 /16/1993	5,462,574	10/31/1995		
024444-008	08/185,214	1 /24/1994	5,466,097	11/14/1995		
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024444-069	08/309,480	9 /21/1994	5,477,934	12/26/1995		
024000-886.001	08/251,661	5 /31/1994	5,482,748	1 /9 /1996		
024444-013	08/192,628	2 /7 /1994	5,484,468	1 /16/1996		
024000-993	08/159,217	11/30/1993	5,487,625	1 /30/1996		
024444-067	08/301,608	9 /7 /1994	5,487,626	1 /30/1996		
024444-055	08/281,276	7 /27/1994	5,496,131	3 /5 /1996		
024000-954.001	08/297,905	8 /29/1994	5,496,638	3 /5 /1996		
024000-984	08/141,603	10/27/1993	5,505,569	4 /9 /1996		
024444-108	08/412,945	3 /29/1995	5,505,902	4 /9 /1996		
024444-049	08/244,656	7 /22/1994	5,507,355	4 /16/1996		
024444-021.001	08/199,296	3 /3 /1994	5,512,237	4 /30/1996		
024444-038	08/237,999	5 /4 /1994	5,524,518	6 /11/1996		
024444-036	08/233,332	4 /26/1994	5,529,439	6 /25/1996		
024444-107	08/412,930	3 /29/1995	5,529,804	6 /25/1996		
024000-805.001	08/128,741	9 /30/1993	5,543,176	8 /6 /1996		
024444-011	08/185,371	1 /24/1994	5,544,984	8 /13/1996		
024000-927.001	08/258,598	6 /10/1994	5,549,980	8 /27/1996		
024444-047	08/257,531	6 /9 /1994	5,564,320	10/15/1996		
024000-821.002	08/303,001	9 /9 /1994	5,565,152	10/15/1996		
024444-063	08/299,063	8 /31/1994	5,567,092	10/22/1996		
024444-043	08/249,214	5 /26/1994	5,569,000	10/29/1996		
024444-143	08/452,136	5 /26/1995	5,575,342	11/19/1996		
024444-118	08/405,782	3 /17/1995	5,576,058	11/19/1996		
024000-851.002	08/516,508	8 /17/1995	5,578,265	11/26/1996		
024444-052	08/262,942	6 /21/1994	5,582,656	12/10/1996		
024444-089	08/325,236	11/17/1994	5,584,175	12/17/1996		

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MATTEO NO	SERIAL NO	FILED	PATENT NO	ISSUED	RECORDED	REEL/FRAME
024444-133	08/464,965	6 / 5 / 1995	5,584,907	12/17/1996		
024444-116	08/393,685	2 / 24 / 1995	5,586,844	12/24/1996		
024444-177	08/566,952	12/4 / 1995	5,591,320	1 / 7 / 1997		
024444-127	08/465,356	6 / 5 / 1995	5,594,929	1 / 14 / 1997		
024444-137	08/492,521	6 / 20 / 1995	5,616,526	4 / 1 / 1997		
024444-136	08/437,307	5 / 9 / 1995	5,622,461	4 / 22 / 1997		
024444-192	08/568,293	12/6 / 1995	5,624,068	4 / 29 / 1997		
024444-172	08/557,579	11/14/1995	5,632,824	5 / 27 / 1997		
024444-080	08/319,648	10/7 / 1994	5,632,826	5 / 27 / 1997		
024444-141.001	08/698,254	8 / 14 / 1996	5,634,745	6 / 3 / 1997		
024444-129	08/436,214	5 / 15 / 1995	5,634,747	6 / 3 / 1997		
024444-051	08/264,148	6 / 22 / 1994	5,637,037	6 / 10 / 1997		
024444-204	08/610,234	3 / 4 / 1996	5,645,132	7 / 8 / 1997		
024444-031.001	08/540,320	10/6 / 1995	5,648,029	7 / 15 / 1997		
024444-091	08/343,921	11/17/1994	5,649,279	7 / 15 / 1997		
024444-162	08/532,359	9 / 22 / 1995	5,654,035	8 / 5 / 1997		
024444-132	08/464,564	6 / 5 / 1995	5,658,395	8 / 19 / 1997		
024444-151	08/495,840	6 / 28 / 1995	5,659,872	8 / 19 / 1997		
024444-158	08/513,960	11/2 / 1995	5,667,343	9 / 16 / 1997		
024444-220	08/630,327	4 / 10 / 1996	5,669,742	9 / 23 / 1997		
024444-146	08/452,853	5 / 30 / 1995	5,674,564	10/7 / 1997		
024444-214	08/610,239	3 / 4 / 1996	5,676,499	10/14/1997		
024444-224	08/721,528	9 / 26 / 1996	5,676,519	10/14/1997		
024444-196	08/589,870	1 / 23 / 1996	5,682,590	10/28/1997		
024444-145.001	08/451,462	5 / 26 / 1995	5,685,672	11/11/1997		
024444-176	08/549,216	10/27/1995	5,685,674	11/11/1997		
024444-022.001	08/622,930	3 / 27 / 1996	5,688,080	11/18/1997		
024444-244	08/662,523	6 / 13 / 1996	5,688,729	11/18/1997		
024444-456.001	445,523	5 / 22 / 1995	5,693,417	12/2 / 1997		
024000-997.001	08/593,905	1 / 30 / 1996	5,694,639	12/2 / 1997		
024444-168	08/526,390	9 / 11 / 1995	5,697,737	12/16/1997		
024444-456	445,521	5 / 22 / 1995	5,698,314	12/16/1997		
024444-171	08/557,580	11/14/1995	5,702,808	12/30/1997		
024444-104	08/407,657	3 / 21 / 1995	5,705,263	1 / 6 / 1998		
013715-001	08/705,989	8 / 30 / 1996	5,716,053	2 / 10 / 1998		
024000-807.002	08/214,157	3 / 17 / 1994	5,718,948	2 / 17 / 1998		

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024444-205	08/616,095	3 /14/1996	5,729,823	3 /17/1998		
024444-270	08/709,873	9 /9 /1996	5,743,162	4 /28/1998		
024444-173.001	08/837,092	4 /14/1997	5,743,681	4 /28/1998		
024444-324	08/778,677	1 /3 /1997	5,759,308	6 /2 /1998		
024444-256	08/703,966	8 /28/1996	5,759,621	6 /2 /1998		
024444-216	08/616,312	3 /15/1996	5,761,593	6 /2 /1998		
029777-003.001	08/427,561	4 /24/1995	5,761,981	6 /9 /1998		
024444-066.001	08/851,559	5 /6 /1997	5,765,972	6 /16/1998		
024444-093	08/366,107	12/29/1994	5,766,782	6 /16/1998		
024444-081.001	08/826,407	3 /24/1997	5,771,763	6 /30/1998		
024444-110.001	08/853,869	5 /9 /1997	5,772,366	6 /30/1998		
024444-264	08/703,965	8 /28/1996	5,786,069	7 /28/1998		
024444-191	08/570,430	12/11/1995	5,786,076	7 /28/1998		
024444-325	08/772,286	12/20/1996	5,794,728	8 /18/1998		
024444-304	08/746,265	11/8 /1996	5,795,109	8 /18/1998		
024444-291	08/727,572	3 /10/1997	5,795,116	8 /18/1998		
024444-131	08/504,779	7 /20/1995	5,795,384	8 /18/1998		
024444-381	08/873,467	6 /12/1997	5,800,868	9 /1 /1998		
024444-223	08/675,690	7 /3 /1996	5,803,230	9 /8 /1998		
013715-002	08/848,741	5 /1 /1997	5,807,041	9 /15/1998		
024444-276	08/719,976	9 /24/1996	5,810,518	9 /22/1998		
024444-012.002	08/772,472	12/23/1996	5,810,521	9 /22/1998		
024444-394	08/888,055	7 /3 /1997	5,813,105	9 /29/1998		
024444-125.001	08/746,158	11/6 /1996	5,816,755	10/6 /1998		
024444-314	08/755,743	11/22/1996	5,827,017	10/27/1998		
024444-412	08/898,408	7 /22/1997	5,834,061	11/10/1998		
024444-161	08/593,465	1 /29/1996	5,837,071	11/17/1998		
024444-298	08/746,268	11/8 /1996	5,839,519	11/24/1998		
024444-391	08/909,659	8 /12/1997	5,839,523	11/24/1998		
024444-259	08/770,849	12/20/1996	5,851,285	12/22/1998		
024444-092	08/348,084	11/25/1994	5,851,687	12/22/1998		
024444-258	08/772,099	12/20/1996	5,853,477	12/29/1998		
024444-313	08/772,101	12/20/1996	5,856,626	1 /5 /1999		
024444-312	08/777,735	12/20/1996	5,858,539	1 /12/1999		
024444-144	08/497,934	7 /5 /1995	5,861,210	1 /19/1999		
024444-233	08/675,034	7 /3 /1996	5,863,640	1 /26/1999		

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024444-345	08/888,051	7 /3 /1997	5,865,574	2 /2 /1999		
024444-285	08/746,141	11/6 /1996	5,870,423	2 /9 /1999		
024444-334	08/798,135	2 /12/1997	5,871,309	2 /16/1999		
024444-323	08/765,590	4 /17/1997	5,876,524	3 /2 /1999		
024444-350	08/809,578	3 /26/1997	5,881,828	3 /16/1999		
024444-243	08/656,358	6 /14/1996	5,885,136	3 /23/1999		
024444-197.001	08/781,747	1 /10/1997	5,885,653	3 /23/1999		
024444-271	08/721,766	9 /25/1996	5,887,242	3 /23/1999		
024444-295	08/748,950	11/15/1996	5,887,698	3 /30/1999		
024444-343	08/812,730	3 /6 /1997	5,890,551	4 /6 /1999		
024444-272.001	08/928,669	9 /12/1997	5,894,034	4 /13/1999		
024444-293	08/751,104	11/15/1996	5,894,919	4 /20/1999		
024444-326	08/765,194	2 /28/1997	5,897,272	4 /27/1999		
024444-234	08/675,678	7 /3 /1996	5,902,671	5 /11/1999		
024444-292	08/748,904	11/15/1996	5,909,796	6 /8 /1999		
024444-357	08/867,417	6 /2 /1997	5,911,867	6 /15/1999		
024444-461	09/034,230	3 /4 /1998	5,912,051	6 /15/1999		
024444-363	08/880,297	6 /24/1997	5,914,286	6 /22/1999		
024444-330	08/787,220	1 /22/1997	5,919,578	7 /6 /1999		
024444-455	08/998,648	12/29/1997	5,921,332	7 /13/1999		
032944-011	08/887,069	7 /2 /1997	5,921,632	7 /13/1999		
024444-286	08/738,839	10/28/1996	5,924,826	7 /20/1999		
024000-971.001	08/430,308	4 /28/1995	5,925,197	7 /20/1999		
024444-366	08/852,610	5 /7 /1997	5,931,243	8 /3 /1999		
024444-472	09/034,395	3 /4 /1998	5,931,613	8 /3 /1999		
024444-387	08/884,388	6 /27/1997	5,934,388	8 /10/1999		
024444-477	09/044,011	3 /19/1998	5,934,843	8 /10/1999		
024444-487	09/051,204	6 /1 /1998	5,934,844	8 /10/1999		
024000-937.002	08/746,159	11/6 /1996	5,934,847	8 /10/1999		
024444-369	08/886,192	7 /1 /1997	5,942,318	8 /24/1999		
024444-432	08/947,026	10/8 /1997	5,944,126	8 /31/1999		
024444-450	08/987,613	12/9 /1997	5,944,457	8 /31/1999		
024444-413	08/923,922	9 /5 /1997	5,945,207	8 /31/1999		
024444-441	08/965,110	11/6 /1997	5,947,215	9 /7 /1999		
024444-493	09/097,666	6 /16/1998	5,948,715	9 /7 /1999		
024444-417	08/912,562	8 /18/1997	5,950,745	9 /14/1999		

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024444-185.001	08/904,456	8 /1 /1997	5,951,788	9 /14/1999		
024444-252	08/669,538	7 /12/1996	5,957,629	9 /28/1999		
024444-526	09/131,699	8 /10/1998	5,962,071	10/5 /1999		
024444-321	08/750,617	2 /24/1997	5,964,553	10/12/1999		
024444-358	08/836,809	8 /11/1997	5,964,649	10/12/1999		
024444-338	08/818,865	3 /17/1997	5,965,471	10/12/1999		
024444-474	09/058,854	4 /13/1998	5,967,705	10/19/1999		
024444-482	09/047,221	3 /25/1998	5,968,595	10/19/1999		
024444-339	08/793,123	2 /19/1997	5,971,670	10/26/1999		
024444-351	08/817,949	4 /28/1997	5,971,672	10/26/1999		
024444-414	08/894,048	8 /12/1997	5,975,223	11/2 /1999		
024444-495	09/075,221	5 /11/1998	5,976,213	11/2 /1999		
024444-306	08/750,256	2 /19/1997	5,976,455	11/2 /1999		
013715-004	09/159,390	9 /23/1998	5,980,165	11/9 /1999		
024444-426	08/947,880	10/9 /1997	5,980,988	11/9 /1999		
024444-452	08/973,976	4 /22/1998	5,984,024	11/16/1999		
024444-419	08/913,286	9 /11/1997	5,984,030	11/16/1999		
018300-030	08/769,447	12/19/1996	5,984,592	11/16/1999		
024444-384	08/879,891	6 /20/1997	5,988,301	11/23/1999		
024444-483	09/049,004	3 /27/1998	5,993,118	11/30/1999		
024444-488	09/058,851	4 /13/1998	5,993,120	11/30/1999		
024444-356	08/862,242	5 /23/1997	5,993,638	11/30/1999		
024444-548	09/169,952	10/13/1998	5,993,730	11/30/1999		
024444-352	08/837,094	4 /14/1997	5,993,970	11/30/1999		
013715-006	09/172,295	10/14/1998	6,004,080	12/21/1999		
024444-458	08/983,038	3 /27/1998	6,004,081	12/21/1999		
024444-411	08/875,139	2 /2 /1998	6,004,371	12/21/1999		
024444-547	09/152,066	9 /11/1998	6,007,766	12/28/1999		
024444-457	08/981,844	2 /9 /1998	6,007,909	12/28/1999		
024444-361	08/842,357	4 /24/1997	6,016,720	1 /25/2000		
024444-368	08/836,888	6 /3 /1997	6,017,171	1 /25/2000		
024444-500	09/075,247	5 /11/1998	6,017,488	1 /25/2000		
024444-463	09/011,498	5 /6 /1998	6,021,855	2 /8 /2000		
024444-353	08/849,770	9 /18/1997	6,033,735	3 /7 /2000		
024444-630	09/276,676	3 /26/1999	6,043,176	3 /28/2000		
024444-459	09/008,626	1 /16/1998	6,045,308	4 /4 /2000		

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024444-519	09/101,968	7/21/1998	6,050,751	4/18/2000		
024444-512	09/045,639	3/23/1998	6,051,079	4/18/2000		
024444-444	08/972,320	11/18/1997	6,053,669	4/25/2000		
024444-427	08/913,443	10/20/1997	6,056,628	5/2/2000		
024444-471	09/099,686	6/18/1998	6,062,322	5/16/2000		
024444-498	09/077,370	9/1/1998	6,062,776	5/16/2000		
013715-008	09/222,764	12/30/1998	6,065,906	5/23/2000		
024444-586	09/232,008	1/14/1999	6,066,582	5/23/2000		
024444-581	09/214,594	5/6/1999	6,071,469	6/6/2000		
024444-390	08/912,404	8/18/1997	6,073,711	6/13/2000		
024444-359	08/836,124	8/7/1997	6,074,138	6/13/2000		
024444-523	09/131,419	8/10/1998	6,076,618	6/20/2000		
024444-582	09/214,516	5/14/1999	6,076,999	6/20/2000		
013715-007	09/172,293	10/14/1998	6,086,290	7/11/2000		
013715-005	09/159,389	9/23/1998	6,086,291	7/11/2000		
024444-656	09/340,724	6/29/1999	6,086,650	7/11/2000		
024444-447	08/993,243	12/18/1997	6,086,980	7/11/2000		
024444-451	08/992,818	12/18/1997	6,090,476	7/18/2000		
024444-231.001	09/245,124	1/14/1999	6,095,958	8/1/2000		
024444-528	09/148,993	9/8/1998	6,102,141	8/15/2000		
024444-486	09/060,360	4/15/1998	6,103,357	8/15/2000		
024444-609	09/252,476	2/18/1999	6,105,693	8/22/2000		
024444-564	09/196,116	11/20/1998	6,109,836	8/29/2000		
024444-257	08/772,102	12/20/1996	6,110,275	8/29/2000		
024444-628	09/268,732	3/17/1999	6,112,832	9/5/2000		
024444-520	09/121,189	7/23/1998	6,112,835	9/5/2000		
024444-545	09/168,061	10/8/1998	6,113,195	9/5/2000		
024444-501	09/083,115	5/22/1998	6,113,319	9/5/2000		
024444-346	08/809,575	3/26/1997	6,119,798	9/19/2000		
024444-603	09/261,615	3/3/1999	6,125,952	10/3/2000		
024444-516	09/101,896	7/20/1998	6,126,366	10/3/2000		
024444-626	09/271,924	3/18/1999	6,129,619	10/10/2000		
024444-682	09/378,761	8/23/1999	6,129,891	10/10/2000		
024444-730	09/503,343	2/14/2000	6,131,672	10/17/2000		
024000-945	08/077,681	6/16/1993	6,132,293	10/17/2000		
024444-566	09/194,926	5/14/1999	6,135,678	10/24/2000		

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024444-667	09/331,209	9 /2 /1999	6,139,315	10/31/2000		
024444-562	09/197,639	11/23/1998	6,139,921	10/31/2000		
024444-506	09/095,502	6 /11/1998	6,145,603	11/14/2000		
024444-563	09/192,585	11/17/1998	6,145,605	11/14/2000		
024444-676	09/352,777	7 /14/1999	6,146,061	11/14/2000		
024444-649	09/301,457	4 /29/1999	6,146,065	11/14/2000		
024444-573	09/204,358	12/4 /1998	6,146,582	11/14/2000		
024444-415	08/894,409	8 /20/1997	6,155,754	12/5 /2000		
024444-639	09/299,150	4 /26/1999	6,164,392	12/26/2000		
024444-641	09/337,676	6 /22/1999	6,168,356	1 /2 /2001		
024444-561	09/204,355	12/4 /1998	6,169,048	1 /2 /2001		
024444-600	09/249,048	2 /12/1999	6,174,386	1 /16/2001		
024444-499	09/077,360	9 /1 /1998	6,177,178	1 /23/2001		
024444-657	09/326,678	6 /7 /1999	6,182,776	2 /6 /2001		
024444-550	09/155,542	1 /15/1999	6,187,254	2 /13/2001		
024444-686	09/387,503	9 /1 /1999	6,193,446	2 /27/2001		
024444-645	09/326,677	6 /7 /1999	6,193,451	2 /27/2001		
024444-677	09/358,464	7 /22/1999	6,193,777	2 /27/2001		
024444-652	09/305,464	5 /6 /1999	6,196,770	3 /6 /2001		
024444-507	09/112,453	7 /9 /1998	6,197,083	3 /6 /2001		
024444-599	09/242,535	10/20/1999	6,197,132	3 /6 /2001		
024444-695	09/407,766	9 /29/1999	6,199,656	3 /13/2001		
024444-679	09/372,608	8 /12/1999	6,200,077	3 /13/2001		
024444-497	09/077,424	9 /1 /1998	6,200,671	3 /13/2001		
024003-086	09/305,333	5 /5 /1999	6,202,327	3 /20/2001		
024444-625	09/274,325	3 /23/1999	6,202,768	3 /20/2001		
024444-578	09/214,622	8 /10/1999	6,207,102	3 /27/2001		
024444-571	09/221,157	12/28/1998	6,209,703	4 /3 /2001		
024444-579	09/214,924	4 /1 /1999	6,210,632	4 /3 /2001		
024444-557	09/187,006	11/6 /1998	6,210,726	4 /3 /2001		
024444-744	09/544,171	4 /6 /2000	6,214,287	4 /10/2001		
024444-661	09/326,679	6 /7 /1999	6,217,263	4 /17/2001		
024444-710	09/443,312	11/19/1999	6,220,376	4 /24/2001		
024444-664	09/332,594	6 /14/1999	6,220,426	4 /24/2001		
024444-580	09/214,923	4 /20/1999	6,221,479	4 /24/2001		
024444-598	09/242,630	5 /28/1999	6,221,493	4 /24/2001		

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024444-607	09/254,539	6 /7 /1999	6,224,972	5 /1 /2001		
024444-702	09/403,993	10/29/1999	6,227,771	5 /8 /2001		
024444-754	09/558,228	4 /26/2000	6,228,139	5 /8 /2001		
024444-594	09/244,627	2 /4 /1999	6,231,807	5 /15/2001		
024444-654	09/316,965	5 /24/1999	6,238,147	5 /29/2001		
024444-532	09/151,098	9 /10/1998	6,238,489	5 /29/2001		
024444-752	09/486,609	5 /18/2000	6,238,601	5 /29/2001		
024444-671	09/347,274	7 /6 /1999	6,241,033	6 /5 /2001		
024000-846.002	09/506,441	2 /18/2000	6,241,799	6 /5 /2001		
024444-601	09/242,631	5 /6 /1999	6,242,112	6 /5 /2001		
024444-665	09/332,158	6 /14/1999	6,244,423	6 /12/2001		
013715-009	09/222,768	12/30/1998	6,244,780	6 /12/2001		
024444-714	09/445,595	12/13/1999	6,244,791	6 /12/2001		
024444-672	09/350,900	7 /12/1999	6,247,196	6 /19/2001		
024444-632	09/349,967	7 /9 /1999	6,249,950	6 /26/2001		
024444-720	09/465,319	12/17/1999	6,250,407	6 /26/2001		
024444-733	09/534,006	3 /24/2000	6,250,855	6 /26/2001		
024444-663	09/332,533	6 /14/1999	6,253,904	7 /3 /2001		
024444-638	09/349,106	7 /8 /1999	6,261,673	7 /17/2001		
024444-577	09/214,621	4 /1 /1999	6,267,797	7 /31/2001		
024444-731	09/496,199	2 /2 /2000	6,270,294	8 /7 /2001		
024444-741	09/500,993	2 /9 /2000	6,272,726	8 /14/2001		
024444-753	09/543,101	4 /4 /2000	6,273,930	8 /14/2001		
024444-700	09/427,756	10/27/1999	6,280,122	8 /28/2001		
024444-739	09/520,878	4 /5 /2000	6,287,489	9 /11/2001		
024444-705	09/427,483	10/27/1999	6,290,436	9 /18/2001		
024444-763	09/563,347	5 /3 /2000	6,290,902	9 /18/2001		
024444-627	09/275,004	3 /24/1999	6,293,360	9 /25/2001		
024444-718	09/482,083	1 /13/2000	6,294,129	9 /25/2001		
024444-737	09/485,120	4 /6 /2000	6,296,953	10/2 /2001		
024444-597	09/242,683	8 /25/1999	6,299,992	10/9 /2001		
024444-738	09/485,123	2 /4 /2000	6,303,237	10/16/2001		
024444-605	09/265,947	3 /11/1999	6,308,450	10/30/2001		
024444-866	09/698,016	10/30/2000	6,309,159	10/30/2001		
024444-698	09/403,922	5 /30/2000	6,312,199	11/6 /2001		
024444-812	09/605,981	6 /29/2000	6,312,532	11/6 /2001		

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024444-820	09/655,887	9 /6 /2000	6,326,093	12/4 /2001		
024444-202	08/616,012	3 /14/1996	6,333,098	12/25/2001		
024444-569	09/206,967	12/8 /1998	6,333,099	12/25/2001		
024444-729	09/496,200	2 /2 /2000	6,333,100	12/25/2001		
024444-708	09/449,522	11/29/1999	6,334,482	1 /1 /2002		
024444-900	09/796,364	3 /2 /2001	6,334,493	1 /1 /2002		
024444-703	09/427,757	10/27/1999	6,334,740	1 /1 /2002		
024444-762	09/563,502	5 /3 /2000	6,340,445	1 /22/2002		
024444-798	09/581,994	6 /21/2000	6,341,924	1 /29/2002		
024444-818	09/652,026	8 /31/2000	6,342,291	1 /29/2002		
024444-821	09/722,011	11/27/2000	6,343,898	2 /5 /2002		
024444-761	09/563,501	5 /3 /2000	6,344,170	2 /5 /2002		
024444-747	09/545,448	4 /7 /2000	6,344,264	2 /5 /2002		
024444-759	09/547,339	4 /11/2000	6,344,265	2 /5 /2002		
024444-684	09/460,382	12/13/1999	6,352,194	3 /5 /2002		
024444-560	09/204,354	12/4 /1998	6,352,571	3 /5 /2002		
024444-799	09/589,189	6 /8 /2000	6,370,995	4 /16/2002		
024444-697	09/485,339	5 /15/2000	6,375,707	4 /23/2002		
024444-621	09/735,486	12/14/2000	6,382,885	5 /7 /2002		
024444-777	09/572,309	5 /18/2000	6,382,951	5 /7 /2002		
024444-778	09/563,835	5 /4 /2000	6,383,624	5 /7 /2002		
024444-901	09/796,441	3 /2 /2001	6,394,190	5 /28/2002		
024444-781	09/558,065	4 /26/2000	6,394,709	5 /28/2002		
024444-819	09/652,028	8 /31/2000	6,406,224	6 /18/2002		
024444-756	09/486,603	8 /16/2000	6,413,293	7 /2 /2002		
024444-796	09/579,540	5 /26/2000	6,416,871	7 /9 /2002		
024444-939	09/899,071	7 /6 /2001	6,421,906	7 /23/2002		
024444-770	09/546,607	4 /10/2000	6,423,112	7 /23/2002		
024444-883	09/782,226	2 /14/2001	6,423,403	7 /23/2002		
032944-022	09/612,912	7 /10/2000	6,431,654	8 /13/2002		
024444-813	09/600,922	9 /8 /2000	6,443,672			
024444-814	09/601,357	9 /8 /2000	6,447,218	9 /10/2002		
024444-831	09/664,552	9 /18/2000	6,447,219	9 /10/2002		
024444-780	09/581,626	8 /24/2000	6,447,912	9 /10/2002		

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024444-827	09/658,620	9 /8 /2000	6,454,026	9 /24/2002		
024444-623	09/607,280	6 /30/2000	6,454,498	9 /24/2002		
024444-965	09/962,589	9 /26/2001	6,464,748	10/15/2002		
024444-869	09/720,654	2 /20/2001	6,468,680	10/22/2002		
024444-868	09/697,169	10/27/2000	6,470,989	10/29/2002		
024444-830	09/654,989	9 /5 /2000	6,471,448	10/29/2002		
024444-872	09/713,021	11/16/2000	6,475,307	11/5 /2002		
024444-906	09/810,493	3 /19/2001	6,481,938	11/19/2002		
024444-863	09/690,826	10/18/2000	6,482,759	11/19/2002		
024444-919	09/834,908	4 /16/2001	6,484,823	11/26/2002		
024444-736	09/505,175	2 /16/2000	6,485,679	11/26/2002		
024444-966	09/937,824	12/20/2001	6,488,285	12/3 /2002		
024444-776	09/556,323	4 /24/2000	6,490,793	12/10/2002		
024444-807	09/605,645	6 /29/2000	6,494,069	12/17/2002		
024444-896	09/796,440	3 /2 /2001	6,494,275	12/17/2002		
024444-834	09/711,938	11/15/2000	6,499,544	12/31/2002		
024444-828	09/712,221	11/15/2000	6,502,650	1 /7 /2003		
024444-908	09/880,961	6 /15/2001	6,503,028	1 /7 /2003		
024444-875	09/722,006	11/27/2000	6,508,318	1 /21/2003		
024444-920	09/830,156	6 /29/2001	6,520,231	2 /18/2003		
024444-757	09/486,586	5 /15/2000	6,521,172	2 /18/2003		
024444-622	09/735,490	12/14/2000	6,524,034	2 /25/2003		
024444-735	09/453,880	2 /11/2000	6,524,166	2 /25/2003		
024444-942	09/857,844	10/1 /2001	6,524,169	2 /25/2003		
024444-755	09/486,371	5 /15/2000	6,524,364	2 /25/2003		
024444-912	09/833,730	4 /13/2001	6,527,486	3 /4 /2003		
024444-850	09/710,867	11/14/2000	6,530,440	3 /11/2003		
024444-944	09/899,161	7 /6 /2001	6,530,728	3 /11/2003		
024444-816	09/644,079	8 /23/2000	6,531,007	3 /11/2003		
024445-065	09/755,694	1 /5 /2001	6,536,693	3 /25/2003		
024444-867	09/696,241	10/26/2000	6,540,449	4 /1 /2003		
024444-841	09/678,740	10/4 /2000	6,541,135	4 /1 /2003		
024444-865	09/693,997	10/23/2000	6,543,970	4 /8 /2003		
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024444-955	09/941,561	8 /30/2001	6,569,221	5 /27/2003		
024444-987	09/986,188	11/7 /2001	6,572,309	6 /3 /2003		
024445-075	10/139,366	5 /7 /2002	6,582,162	6 /24/2003		
024444-898	09/796,560	3 /2 /2001	6,582,163	6 /24/2003		
024444-887	09/816,172	3 /26/2001	6,585,169	7 /1 /2003		
024444-892	09/780,505	2 /12/2001	6,595,727	7 /22/2003		
024444-956	09/914,210	11/9 /2001	6,599,050	7 /29/2003		
024444-936	09/859,379	5 /18/2001	6,601,486	8 /5 /2003		
024445-001	10/018,779	3 /5 /2002	6,602,028	8 /5 /2003		
024445-015	10/067,804	2 /8 /2002	6,602,312	8 /5 /2003		
024444-789	09/555,569	7 /13/2000	6,609,859	8 /26/2003		
024445-161	10/322,459	12/19/2002	6,609,953	8 /26/2003		
029777-005	09/809,166	3 /16/2001	6,612,207	9 /2 /2003		
024444-977	09/988,315	11/19/2001	6,616,970	9 /9 /2003		
024444-924	09/843,835	4 /30/2001	6,619,891	9 /16/2003		
024444-943	09/891,345	6 /27/2001	6,619,892	9 /16/2003		
024444-935	09/859,375	5 /18/2001	6,623,202	9 /23/2003		
024445-022	10/058,335	1 /30/2002	6,623,216	9 /23/2003		
024444-952	09/897,051	7 /3 /2001	6,627,007	9 /30/2003		
024444-986	09/984,612	10/30/2001	6,627,049	9 /30/2003		
029777-004	09/719,633	2 /12/2001	6,632,051	10/14/2003		
024444-885	09/787,718	5 /31/2001	6,634,568	10/21/2003		
024444-972	09/984,145	10/29/2001	6,638,609	10/28/2003		
024445-242	10/305,009	11/27/2002	6,655,879	12/2 /2003		
024444-905	09/842,129	4 /26/2001	6,656,976	12/2 /2003		
024445-024	10/120,499	4 /12/2002	6,658,968	12/9 /2003		US 2002-0153174 A1
024444-953	09/913,271	10/17/2001	6,661,157	12/9 /2003		
024444-870	09/743,090	3 /28/2001	6,673,307	1 /6 /2004		
024445-069	10/155,168	5 /28/2002	6,673,393	1 /6 /2004		US 2003-0008181 A1
024445-053	10/151,821	5 /22/2002	6,673,430	1 /6 /2004		US 2003-0027015 A1
024444-889	09/806,032	5 /18/2001	6,676,860	1 /13/2004		
024445-073	10/131,074	4 /25/2002	6,676,893	1 /13/2004		US 2002-0112408 A1
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024444-806	09/598,241	6 /21/2000	6,689,231	2 /10/2004		
024445-282	10/353,934	1 /30/2003	6,692,199	2 /17/2004		US 2003-0170081 A1
024445-056	10/112,942	4 /2 /2002	6,692,690	2 /17/2004		US 2002-0148326 A1
024444-982	10/006,672	12/10/2001	6,692,822	2 /17/2004		US 2002-0114981 A1
024444-984	09/983,522	10/24/2001	6,695,551	2 /24/2004		US 2002-0057951 A1
024444-975	09/973,809	10/11/2001	6,699,526	3 /2 /2004		US 2002-0051871 A1
024444-951	09/890,568	10/15/2001	6,702,529	3 /9 /2004		
024445-031	10/082,117	2 /26/2002	6,705,805	3 /16/2004		US 2002-0122698 A1
024444-976	09/973,819	10/11/2001	6,706,327	3 /16/2004		US 2002-0051886 A1
024445-036	10/084,915	3 /1 /2002	6,708,590	3 /23/2004		US-2002-0127067- A1
024444-991	10/058,387	1 /30/2002	6,709,065	3 /23/2004		US 2003-0141753 A1
024445-102	10/214,709	8 /9 /2002	6,709,204	3 /23/2004		US 2003-0031518 A1
024444-970	09/985,407	11/2 /2001	6,713,172	3 /30/2004		US 2002-0122701 A1
024445-131	10/259,307	9 /30/2002	6,715,967	4 /6 /2004		US 2003-0086767 A1
024444-899	09/786,757	5 /14/2001	6,715,968	4 /6 /2004		
024444-964	09/937,380	12/13/2001	6,722,827	4 /20/2004		
029777-010	10/214,364	8 /8 /2002	6,733,214	5 /11/2004		US-2003-0039519- A1
024444-962	09/945,644	9 /5 /2001	6,733,215	5 /11/2004		US 2002-0031410 A1
024445-051	10/097,269	3 /15/2002	6,736,574	5 /18/2004		US 2002-0131829 A1
024444-904	09/796,442	3 /2 /2001	6,749,697	6 /15/2004		US 2001-0031217 A1
024444-874	09/721,984	11/27/2000	6,767,156	7 /27/2004		
024445-380	10/639,521	8 /13/2003	6,767,583	7 /27/2004		US 2004-0033393 A1
024445-023	10/058,334	1 /30/2002	6,769,843	8 /3 /2004		US 2002-0109061 A1
024445-133	10/261,416	10/2 /2002	6,773,660	8 /10/2004		US 2003-0086809 A1
024445-152	10/279,870	10/25/2002	6,783,307	8 /31/2004		US 2003-0091402 A1
024445-151	10/279,966	10/25/2002	6,783,308	8 /31/2004		US 2003-0091403 A1
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024445-153	10/281,351	10/28/2002	6,799,388	10/5/2004		US 2003-0123934 A1
029777-009	10/130,695	8/26/2002	6,811,360	11/2/2004		
024444-985	09/959,723	1/7/2002	6,811,580	11/2/2004		
024445-067	10/125,414	4/19/2002	6,814,526	11/9/2004		US 2002-0154959 A1
024444-995	10/022,246	12/20/2001	6,820,561	11/23/2004		US 2002-0079254 A1
024445-296	10/410,353	4/10/2003	6,829,999	12/14/2004		US 2003-0217909 A1
024445-146	10/278,073	10/23/2002	6,830,604	12/14/2004		US 2003-0047031 A1
024445-081	10/161,640	6/5/2002	6,840,717	1/11/2005		US 2003-0002932 A1
024444-917	09/838,305	4/20/2001	6,854,367	2/15/2005		US 2002-0035902 A1
024445-297	10/410,250	4/10/2003	6,854,398	2/15/2005		US 2003-0221938 A1
024445-419	10/688,966	10/21/2003	6,855,413	2/15/2005		US 2004-0081824 A1
024445-159	10/303,799	11/26/2002	6,857,832	2/22/2005		US 2003-0143043 A1
024445-014	10/073,239	2/13/2002	6,869,688	3/22/2005		US 2002-0155325 A1
024445-083	10/168,375	8/26/2002	6,871,859	3/29/2005		US 2003-0075879 A1
024445-422	10/691,629	10/24/2003	6,878,181	4/12/2005		US 2005-0039574 A1
024445-104	10/220,311	12/3/2002	6,880,437	4/19/2005		US 2003-0185638 A1
024444-983	09/987,941	11/16/2001	6,896,452	5/24/2005		US 2002-0076286 A1
024445-350	10/462,600	6/17/2003	6,896,455	5/24/2005		US 2004-0033116 A1
024445-225	10/291,666	11/12/2002	6,899,495	5/31/2005		US 2003-0103824 A1
024445-441	10/757,401	1/15/2004	6,902,764	6/7/2005		US-2004-0144302- A1
024445-162	10/290,468	11/8/2002	6,905,651	6/14/2005		US 2003-0119667 A1
024444-937	09/861,522	5/22/2001	6,905,652	6/14/2005		US 2002-0021980 A1
024007-061	10/770,514	2/4/2004	6,910,568	6/28/2005		
024445-495	10/918,455	8/16/2004	6,916,137	7/12/2005		US 2005-0047877 A1
024445-251	10/311,540	3/14/2003	6,916,138	7/12/2005		
029777-013	10/291,665	11/12/2002	6,918,718	7/19/2005		US 2003-0108396 A1
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024000-690	418,470	10/10/1989	D329,440	9/15/1992		

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024000-689	418,484	10/10/1989	D330,033	10/6/1992		
024000-678	406,117	9/12/1989	D330,901	11/10/1992		
024000-884	914,142	7/17/1992	D340,464	10/19/1993		
024000-823	782,458	10/25/1991	D341,604	11/23/1993		
024000-859	858,773	3/27/1992	D343,400	1/18/1994		
024000-883	914,141	7/17/1992	D344,276	2/15/1994		
024000-773	600,970	10/22/1990	D347,642	6/7/1994		
024000-885	914,143	7/17/1992	D348,891	7/19/1994		
024000-995	29/015,515	11/19/1993	D350,549	9/13/1994		
024000-882	914,095	7/16/1992	D351,606	10/18/1994		
024000-988	29/015,197	11/10/1993	D355,661	2/21/1995		
024000-976	29/011,880	8/18/1993	D357,485	4/18/1995		
024000-977	29/011,907	8/18/1993	D357,486	4/18/1995		
024444-083	29/029,662	10/12/1994	D362,859	10/3/1995		
024000-968	29/011,049	7/26/1993	D363,076	10/10/1995		
024000-967	29/011,048	7/26/1993	D364,178	11/14/1995		
024444-085	29/029,660	10/12/1994	D365,112	12/12/1995		
024444-082	29/029,663	10/12/1994	D366,882	2/6/1996		
024444-112	29/036,277	3/16/1995	D367,866	3/12/1996		
024444-109	29/036,274	3/16/1995	D369,362	4/30/1996		
024444-121	29/037,415	4/12/1995	D371,146	6/25/1996		
024444-122	29/037,416	4/12/1995	D371,374	7/2/1996		
024000-981	29/013,163	12/15/1993	D376,158	12/3/1996		
024444-062	29/027,321	8/18/1994	D381,026	7/15/1997		
024444-242	29/055,703	6/11/1996	D389,161	1/13/1998		
024444-281	29/060,377	9/27/1996	D389,496	1/20/1998		
024444-275	29/060,378	9/27/1996	D389,497	1/20/1998		
024444-288	29/060,381	9/27/1996	D389,846	1/27/1998		
024444-280	29/060,375	9/27/1996	D393,270	4/7/1998		
024444-282	29/060,379	9/27/1996	D395,663	6/30/1998		
024444-536	29/093,432	9/10/1998	D415,178	10/12/1999		
024444-549	29/095,737	10/29/1998	D416,029	11/2/1999		
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024444-693	29/120,688	3 /22/2000	D436,013	1 /9 /2001		
024444-644	29/104,015	4 /27/1999	D437,201	2 /6 /2001		
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The undersigned has reviewed all documents in the chain of title of the patent applications and patents identified above and, to the best of the undersigned's knowledge and belief, title is in the name of the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

Acting on behalf of the assignee, the undersigned hereby revokes all powers of attorney previously granted in these applications and patents and appoints:

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with full power of substitution and revocation, to prosecute the applications and to transact all business in the United States Patent and Trademark Office connected with these patent applications and issued patents.

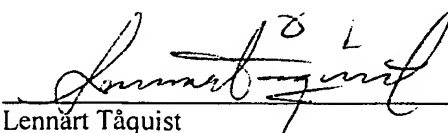
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I hereby declare that all statements made here of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the patents, applications or any patents issued on the applications.

Respectfully submitted,

Date: August 5, 2005


Lennart Tåquist
Managing Director
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PROPERTY AKTIEBOLAG

Printer Friendly

10/603,653 Male portion, drill bit and threaded joint for percussive rock drilling

Application Data

Application Number:	10/603,653	Customer Number:	-
Filing or 371 (c) Date:	06-26-2003	Status:	Non Final Action Mailed
Application Type:	Utility	Status Date:	04-04-2005
Examiner Name:	GAY, JENNIFER HAWKINS	Location:	ELECTRONIC
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Confirmation Number:	4028	Earliest Publication No:	US 2004-0050592 A1
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Class / Subclass:	175/320	Patent Number:	-
First Named Inventor:	Bo Carlstrom , Sandviken, (SE)	Issue Date of Patent:	-
Title of Invention:	Male portion, drill bit and threaded joint for percussive rock drilling		

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